



US006005306A

United States Patent [19]
Pickard

[11] **Patent Number:** **6,005,306**
[45] **Date of Patent:** **Dec. 21, 1999**

[54] **REMOTE CONTROL DOOR LOCK SYSTEM**

5,852,944 12/1998 Collard, Jr. et al. 70/278

[75] **Inventor:** Andrew M Pickard, Carrollton, Tex.

OTHER PUBLICATIONS

[73] **Assignees:** Jon J. Dillon; John G. Carros, both of Richardson, Tex.

Brochure, Weiser Lock, Powerbolt Home Access System, ©1997 Masco Building Products Corporation.
DeMaste, Sarah, "Remote Access Locksets Gain Wider Distribution," National Home Center News, apr. 27, 1998, pp. 37-38.

[21] **Appl. No.:** 09/133,937

[22] **Filed:** Aug. 14, 1998

Primary Examiner—Jeffrey Gaffin

Assistant Examiner—Peter Zura

Attorney, Agent, or Firm—Akin, Gump, Strauss, Hauer & Feld

[51] **Int. Cl.** ⁶ **H01H 35/00**

[52] **U.S. Cl.** **307/117; 340/825.31; 340/825.72**

[58] **Field of Search** 307/112, 113,
307/116, 117, 139, 140, 141, 141.8, 149;
340/500, 825, 825.31, 825.44, 825.71, 825.72

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,453,161	6/1984	Lemelson	340/825.31
4,573,046	2/1986	Pinnow	340/825.56
4,763,121	8/1988	Tomoda et al.	340/825.54
4,794,268	12/1988	Nakano et al.	307/10.2
4,996,525	2/1991	Becker, Jr. et al.	340/825.31
5,107,258	4/1992	Soum	340/825.31
5,437,174	8/1995	Aydin	70/278
5,477,213	12/1995	Atarashi	340/825.31
5,490,698	2/1996	Dezso	292/138
5,508,692	4/1996	Wolfram	340/825.31
5,625,349	4/1997	Disbrow et al.	340/825.31
5,638,056	6/1997	Nakashima et al.	340/825.71
5,648,764	7/1997	Nose et al.	340/825.32
5,650,774	7/1997	Drori	340/825.32
5,699,685	12/1997	Jahrsetz et al.	70/264
5,729,198	3/1998	Gorman	340/539

[57] **ABSTRACT**

A wireless remote control lock system for residential and commercial building pedestrian doors includes an electrically powered striker plate assembly having a striker plate member moveable between positions for engagement and disengagement with a door latch member. The striker assembly is adapted to be connected to a control unit which supplies low voltage DC power to the striker assembly and includes a radio frequency range signal receiver and a circuit responsive to receiving signals from an operator controlled radio transmitter to effect indefinite or momentary operation of the striker assembly to unlock a door. The control unit circuit includes a first self-latching relay, a selector switch and a second relay for selecting an operating mode of the system wherein the door may be unlatched momentarily (for about 3.5 seconds, for example) or indefinitely until a second signal is transmitted by the transmitter to the receiver.

19 Claims, 2 Drawing Sheets

